Index to Volume 67

ADDINK, ALBERT, 673
ADOLPH, STEPHEN C., 797
Adrenergic and Cholinergic Regulation of Intracardiac Shunting, 1325
Adrenocortical Response to Stress in the Common Diving Petrel, *Pelecanoides urinatrix,* 526
AHN, ANNA N., 873
ANDREWS, ROBIN M., 1006
AUDSLEY, N., 95
AUTUMN, KELLAR, 238

BACHMAN, GWENDOLYN C., 756
BALDWIN, JOHN, 1383
BALHARRY, E., 1174
Basis for a Functional Response to Variable Food Quantity and Quality in Cockles *Cerastoderma edule* (Bivalvia, Cardiidae), The, 468
BERRIGAN, DAVID, 1140
BIHLMAYER, S., 1360
Blood Pressure Regulation by Aortic Baroreceptors in Birds, 1402
Body Size and Performance of Pathways of Carbohydrate Metabolism in the Sea Anemone *Metridium senile* L., 925
BOUTILIER, ROBERT G., 330
BRADLEY, TIMOTHY J., 54, 566
Buoyancy Role of Urea and TMAO in an Elasmobranch Fish, the Port Jackson Shark, *Heterodontus portusjacksoni,* 693
Burden Within: The Energy Cost of Load Carriage in the Honeypot Ant, *Myrmecocystus,* The, 190
BURGGREN, W. W., 1448
BUSHNELL, PETER G., 1383

CALDER, WILLIAM A., 1051
CALVERT, SUSAN J., 407
Central Limits to Sustainable Metabolic Rate Have No Role in Cold Acclimation of the Short-tailed Field Vole (*Microtus agrestis*), 1117
CHAMBERLIN, MARY E., 82
CHAPPELL, MARK A., 418
CHEREL, YVES, 1154
CHEW, SHIT FUN, 580
CHRISTIAN, KEITH, 1087
Circulation in the Gippsland Giant Earthworm *Megascolides australis,* 1383
COCHRAN, BRADLEY M., 263
COLMORGEN, M., 1360
Composition and Function of Surface-active Lipids in the Goldfish Swim Bladder, 1230
Concentrated Excretion of Sulfate by the Anterior Colon of the Brine Fly, *Ephydra hians,* 54
COOPER, PAUL D., 29
Coupling of Energy Supply and Energy Demand in Isolated Goldfish Hepatocytes, 438

DANIELS, CHRISTOPHER B., 1230
DAWSON, TERENCE J., 418
DE L. CASTRUCCI, ANA M., 659
Developmental Changes in Midgut Ion Transport and Metabolism in the Tobacco Hornworm (*Manduca sexta*), 82
DIAMOND, JARED, 282, 1186, 1479
Diet Alters Metabolic Rate in the Yellow-bellied Marmot (*Marmota flaviventris*) during Hibernation, 1213
Differences in Exercise Physiology between Two Atlantic Cod (*Gadus morhua*) Populations from Different Environments, 330
Different Mechanisms of Acid-Base Regulation in Rainbow Trout (*Oncorhynchus mykiss*) and American Eel (*Anguilla rostrata*) during $NaHCO_3$ Infusion, 381
Discontinuous Ventilation in Terrestrial Insects, 142
DOHM, MICHAEL R., 944
DONALD, JOHN A., 1260
DUNCAN, FRANCES D., 190

Embryonic Heart Rate in Altricial Birds, the Pigeon (*Columba domestica*) and the Bank Swallow (*Riparia riparia*), 1448
Energetics of Pedestrian Locomotion in Adult Male Blowflies, *Protophormia terraenovae* (Diptera: Calliphoridae), 1140
Energetics of Reproduction in the Lesser Hedgehog Tenrec, *Echinops telfairi* (Martin), 976
Environmental Temperature and Metabolic Rates during Gestation and Lactation in Golden Hamsters (*Mesocricetus auratus*), 497
EPPLEY, ZOE A., 829
EVANS, BARBARA K., 1383
Evidence for Adrenergic Nervous Control of Blood Pressure in Teleost Fish, 1347
Evolution of Increased Salinity Tolerance in Larvae of *Aedes* Mosquitoes: A Phylogenetic Analysis, The, 566
Evolution of Viviparity: Constraints on Egg Retention, 1006

FARRELL, ANTHONY P., 706
FISHER, CHARLES R., 617
FLORANT, GREGORY L., 1213
Food Restriction Effects on the Body Composition of Free-living Ground Squirrels, *Spermophilus beldingi*, 756
Form and Function of Open and Closed Circulations: An Introduction, The, 1257
Free Amino Acids and Cell Volume Regulation in the Sipunculid *Phascolosoma arcuatum*, 580
FULL, ROBERT J., 238, 855, 873
FUNGE-SMITH, SIMON J., 639

GARLAND, THEODORE, JR., 797, 944
GARTON, DAVID W., 497
GEMMELL, ROBERT T., 407
GIBBS, ALLEN, 1523
GILLES, JANICK, 1154
GOSS, GREG G., 381
GREENAWAY, PETER, 539
GRIESHABER, M. K., 892
GRUCHACZ, MARK J., 1461
GRUEBER, WESLEY B., 566
GUPPY, MICHAEL, 693

HADLEY, MAC E., 659
HADLEY, NEIL F., 175
HAMMOND, KIMBERLY A., 282, 1479
HARDER, JOHN D., 497
HARDEWIG, I., 892
HARRIS, MICHAEL B., 739
HARRISON, JON F., 1, 120
Hemodynamics of the Crayfish *Procambarus clarkii*, 449
Hemolymph Gases, Acid-Base Status, and Electrolyte Concentration in the Freshwater Clams *Anodonta anatina* and *Unio tumidus* during Exposure to and Recovery from Acidic Conditions, 1544
HICKS, JAMES W., 1325
HILLMAN, STANLEY S., 995
HOLLAND, ROBERT A. B., 407
HSU, MINNA J., 497

IGLESIAS, J. I. P., 468
Individual Variation in the Swimming Performance and Cardiac Performance of Northern Squawfish, *Ptychocheilus oregonensis*, 706
Influence of Diet Quality, Developmental Stage, and Temperature on Food Residence Time in the Grasshopper *Melanoplus differentialis*, 598
Inorganic Carbon and Temperature Requirements for Autotrophic Carbon Fixation by the Chemoautotrophic Symbionts of the Giant Hydrothermal Vent Tube Worm, *Riftia pachyptila*, 617
Interactions of Anaerobic Propionate Formation and Acid-Base Status in *Arenicola marina*: An Analysis of Propionyl-CoA Carboxylase, 892
In Vivo Studies of the Acid-Base Physiology of Grasshoppers: The Effect of Feeding State on Acid-Base and Nitrogen Excretion, 120

IP, YUEN KWONG, 580
IWAMA, GEORGE K., 355

JOERN, ANTHONY, 598
JONES, DAVID R., 1257, 1383
JONES, JUDY M., 515

KENNEDY, MICHAEL J., 120
KENNETT, ROD, 1087
KOLOK, ALAN S., 706
KONARZEWSKI, MAREK, 1186, 1479
KRUMSCHNABEL, GERHARD, 438
KRUUK, H., 1174

LACROIX, ANDRÉ, 1154
LARRETXEA, X., 468
LEE, KARA J., 910
LIGHTON, JOHN R. B., 142, 190, 1140
LILLYWHITE, HARVEY B., 1260
Limits to Dietary Nutrient Intake and Intestinal Nutrient Uptake in Lactating Mice, 282
Limits to Sustainable Metabolic Rate during Transient Exposure to Low Temperatures in Short-tailed Field Voles (*Microtus agrestis*), 1103
Low Cost of Locomotion Increases Performance at Low Temperature in a Nocturnal Lizard, 238

MCDEVITT, REGINA M., 1103, 1117
MANOKHAM, THAMMASACK, 1077
Mathematical Model of Heat Flux Applied to Developing Endotherms, A, 829
MAUGET, ROBERT, 1154
Mechanisms of Acid-Base Transport and Control in Locust Excretory System, 95
Mechanisms of Hemolymph Acid-Base Regulation in Aquatic Insects, 29
Membrane Potential and pH Regulation in Vitellogenic Oocytes of an Insect, *Rhodnius prolixus*, 7
Metabolic Ceilings under a Combination of Peak Energy Demands, 1479
Metabolic Depression in Estivating Long-Neck Turtles, *Chelodina rugosa*, 1087
Metabolism and Thermoregulation in Crosses between Wild and Randombred Laboratory House Mice (*Mus domesticus*), 944
Metabolism of 1-^{14}C-Acetate and 1-^{14}C-Leucine by Anoxic Goldfish (*Carassius auratus*, L.): Evidence for Anaerobic Lipid Synthesis, 673
MILSOM, WILLIAM K., 739
MINNICH, ELIZABETH, 617
Moderate Dehydration Decreases Locomotor Performance of the Ghost Crab, *Ocypode quadrata*, 873
Modulation of Noradrenergic Action by Neuropeptide Y in Dogfish (*Squalus acanthias*) Hearts, 204
MOFFETT, DAVID F., 68
MORRISON, GARRICK, 693
MOUSSEAU, TIMOTHY A., 1523

NAGY, KENNETH A., 1461
NAVARRO, E., 468
NELSON, JAY A., 330
Neural Regulation of Arterial Blood Pressure in Snakes, 1260
NILSSON, STEFAN, 1347
NIX, ERICA R., 617

O'DONNELL, MICHAEL J., 7
Open Circulatory System of Spiders (*Eurypelma californicum, Pholcus phalangioides*): A Survey of Functional Morphology and Physiology, The, 1360
ORTEGA, M. M., 468
Oxygen Consumption of the Eurasian Otter *Lutra lutra* in Relation to Water Temperature, 1174

PARSONS, GLENN G., 515
Partitioning of Nitrogen Excretion between Urea and Ammonia and between Skin and Kidneys in the Aquatic Caecilian, *Typhlonectes natans*, 1077
Partitioning of Water and Solutes during Evaporative Water Loss in Three Terrestrial Crabs, The, 539
PAUL, R. J., 1360

PEACH, J. L., 95
Peak Sustained Metabolic Rate and Its Individual Variation in Cold-stressed Mice, 1186
PENG, KAH WHYE, 580
PERRY, STEVE F., 216, 381
PHILLIPS, J. E., 95
Phylogenetic Trends in the Baroreceptor Control of Arterial Blood Pressure, 1284
Physiological Adaptations of the Lahontan Cutthroat Trout (*Oncorhynchus clarki henshawi*) following Transfer from Well Water to the Highly Alkaline Waters of Pyramid Lake, Nevada (pH 9.4), The, 355
Physiologically Inspired Regression Models for Estimating and Predicting Nutrient Stores and Their Composition in Birds, 305
Physiology of Northern and Southern Musk Turtles (*Sternotherus odoratus*) during Simulated Hibernation, 263
PIERSMA, THEUNIS, 305
POHL, HERMANN, 723
POPPITT, SALLY D., 976
PÖRTNER, H. O., 892
PYNNÖNEN, KIRSI, 1544

RACEY, PAUL A., 976
RAM, P. KODANDA, 1213
RANDALL, DAVID J., 204
Rate of Passage of Digesta through the Gastrointestinal Tracts of Potoroine Marsupials: More Evidence about the Role of the Potoroine Foregut, The, 771
Recycling of K^+, Acid-Base Equivalents, and Fluid between Gut and Hemolymph in Lepidopteran Larvae, 68
Regulation of Respiratory Acidemia by the Autonomic Nervous System (Coelopulse) in Insects and Ticks, 163
REIBER, CARL L., 449
REID, STEVE G., 216
Renal Responses to Blood Volume Expansion of Varying Osmotic Concentration in Two Species of Amphibian, *Bufo marinus* and *Rana catesbeiana*, 995
Reproductive and Overwintering Adaptations in Northern Pike (*Esox lucius* L.): Balancing Essential Fatty Acid Requirements with Dietary Supply, 1507
Respiratory and Ionic Aspects of Acid-Base Regulation in Insects: An Introduction, 1
Respiratory Properties of the Neonatal Blood of the Common Brushtail Possum (*Trichosurus vulpecula*), 407
RICHARDSON, CHRISTOPHER S., 944
Role of Arginine Vasotocin in the Control of Posterior Lymph Heart Function in the Toad *Bufo marinus* (L.), The, 515
Role of Arterial Baroreceptors in the Undivided Circulation of Anuran Amphibians, The, 1305
ROSE, BARBARA R., 1006

SCHIMPF, BRIAN, 995
SCHWALME, KARL, 1507
SCHWARZBAUM, PABLO J., 438
SCOTT, KATHLEEN M., 617
Seasonal and Fasting-related Changes in Circulating Gonadal Steroids and Prolactin in King Penguins, *Aptenodytes patagonicus*, 1154
Seasonal and Interpopulational Variation in Plasma Levels of Corticosterone in the Side-blotched Lizard (*Uta stansburiana*), 1025
Seasonal Water and Energy Metabolism of the Desert-dwelling Kangaroo Rat (*Dipodomys merriami*), 0000
SHARDA, RAJESH K., 7
SHERBROOKE, WADE C., 659
SHIMIZU, MANABU, 54
SKINNER, CATHERINE H., 1230
SLÁMA, KAREL, 163
SMITH, FRANK M., 1402
SMITH, G. TROY, 526
SPEAKMAN, JOHN R., 976, 1103, 1117
Specific Activity of Na^+ K^+ ATPase Is Not Altered in Response to Changing Sa-

linities during Early Development of the Brine Shrimp *Artemia franciscana*, 910
STAGG, A. P., 95
STIFFLER, DANIEL F., 1077
Storage and Differential Release of Catecholamines in Rainbow Trout (*Oncorhynchus mykiss*) and American Eel (*Anguilla rostrata*), 216

TANG, YONG, 330
TAYLOR, ALAN C., 639
TAYLOR, EDWARD W., 204
TAYLOR, H. HARRY, 539
TAYLOR, P. T., 1174
TAZAWA, H., 1448
Temperature and Salinity Effects on Oxygen Transport by the Hemolymph of the Freshwater Prawn *Macrobrachium rosenbergii* (de Man), 639
Temperature Effects on In Vitro Skin Darkening in the Mountain Spiny Lizard, *Sceloporus jarrovii*: A Thermoregulatory Adaptation? 659
Testosterone and the Circadian System of the Male Canary (*Serinus canaria*), 723
Thermal Acclimation and Genetic Variation in Cuticular Lipids of the Lesser Migratory Grasshopper (*Melanoplus sanguinipes*): Effects of Lipid Composition on Biophysical Properties, 1523
Thermal Dependence of Locomotor Energetics and Endurance Capacity in the Ghost Crab, *Ocypode quadrata*, 855
THOMSON, R. B., 95
THORP, CHRISTOPHER R., 1213
TOEWS, DANIEL P., 515
TORRES, ROSA M., 1479
Transient-State Thermal Properties of Contact-incubated Chicken Eggs, 1426
TURNER, J. SCOTT, 1426

ULTSCH, GORDON R., 263

VAN DEN THILLART, GUIDO, 673
VAN DER MEER, JAAP, 305
VAN DORP, WILLIAM, 925
VAN RAAIJ, MARCEL, 673
VAN VLIET, BRUCE N., 1284, 1305
VEIT, RICHARD R., 526
Ventilatory Accommodation of Changing Oxygen Consumption in Dasyurid Marsupials, 418
Ventilatory Patterns and Respiratory Transpiration in Adult Terrestrial Insects, 175
Ventilatory Response to Hypercapnia in Hibernating Golden-mantled Ground Squirrels, *Spermophilus lateralis*, The, 739
VODENICHAR, JENNY S., 617

WALLIS, IAN R., 771
WATANABE, W., 1448
WATTS, STEPHEN A., 910
WEINSTEIN, RANDI B., 238, 855, 873
WENTZELL, LEE A., 515
WEST, NIGEL H., 1257, 1284, 1305
When Do Hummingbirds Use Torpor in Nature?, 1051
WHITELY, NIA, 204
Why Not to Do Two-Species Comparative Studies: Limitations on Inferring Adaptation, 797
WIESER, WOLFGANG, 438
WILKIE, MICHAEL P., 355
WILSON, BYRON S., 1025
WINGFIELD, JOHN C., 526, 1025
WITHERS, PHILIP C., 693
WOOD, CHRIS M., 355
WRIGHT, PATRICIA A., 355

XIANG, HONG, 204

YANG, YUELONG, 598

ZAHLER, S., 1360
ZAMER, WILLIAM, E., 925